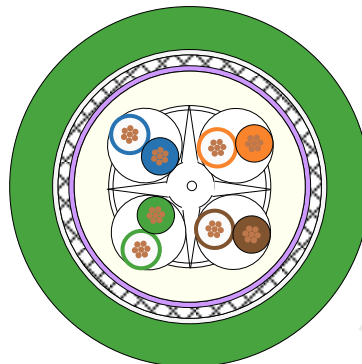


FieldLink®

PROFINET Type C 4 Pairs Cat 6_A ES



Design

Wire

Stranded bare copper wire (24 AWG)
Insulation of Polyethylene (PE)

∅ 0.6 mm (0.024 in dia)
∅ 1.05 mm (0.041 in dia)

2 wires twisted to a pair

Core

4 pairs in separating element
Sequence of colors: WHBU/BU-WHOG/OG-WHBN/BN-WHGN/GN
Plastic tape overlapped
Inner-Jacket: Thermoplastic copolymer (FRNC)
Aluluminat foil overlapped
Shield braiding of tinned copper wires
Coverage about 90%
Plastic tape overlapped

∅ 6.5 mm (0.256 in dia)
∅ 7.2 mm (0.283 in dia)

Jacket

Polyurethane (PUR) GN

∅ (8.9 ±0.2) mm (0.350 ±0.008 in dia)

Printing: "sequential length in metres" BizLink Special Cables Germany INDUSTRIAL ETHERNET TRAILING CABLE *
PROFINET Typ C 4 pair CAT 6_A * E130266 AWM STYLE 21198 80°C 300V * "internal lot number"

Electrical data at 20°C

Loop resistance	≤	180	Ohm/km
Signal run time	≤	5.34	ns/m
Insulation resistance	≥	500	MOhm*km
Characteristic impedance (100 MHz)		(100 ±5)	Ohm
Operating voltage (peak)	≤	100	V
Test voltage (wire/wire/screen rms 50Hz 1min)		2000	V

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Frequency (MHz)	1	4	8	10	16	20	25	31.25	62.5	100	200	250	300	400	500
Next (dB)	75,3	66,3	61,8	60,3	57,2	55,8	54,3	52,8	48,4	45,3	40,8	39,3	38,1	36,3	34,8
PSNext (dB)	72.3	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	36.3	35.1	33.3	31.8
ELFext (dB)	67.8	55.8	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	21.8	19.8	18.3	15.8	13.8
PSELfext (dB)	64.8	52.8	46.7	44.8	40.7	38.8	36.8	34.9	28.9	24.8	18.8	16.8	15.3	12.8	10.8
Attenuation (dB/100m)	3,1	5,7	8	8,9	11,2	12,6	14,1	15,8	22,5	28,7	41,4	46,6	51,4	60,1	67,9
Return loss (dB)	20	23	24.5	25	25	25	24,2	23,3	20,7	19	16,4	15,6	15,6	15,6	15,6

Electrical requirements acc. to IEC 61156-6

Mechanical and thermal characteristics

Oil resistant acc. to DIN EN 60811-404 (7x24h/90°C)

Flame retardant acc. to IEC 60332-1-2

UL-Style 21198 (80°C/300V)

Trailing cable suitable for the following requirements

- 1 million bending cycles
- bending radius 15x max. \varnothing
- at a speed of 4 m/s
- acceleration 4 m/s²
- maximum travel distance 10m
- standard atmospheres (20°C)

Torsional strength for > 1 million cycles (angle $\pm 180^\circ$ on 1 m)

Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)

Halogen free acc. to IEC 60754-1

Permissible temperature range

Transport and fixed installation : -40°C (-40°F) up to 80°C (176°F)

Installation and flexible use : -30°C (-22°F) up to 70°C (158°F)

Min. bending radius allowed : repeated 8X \varnothing , single 4X \varnothing

Weight about : 106 kg/km (71 lb/1000ft)

Designation of order

L45467-J416-B28

230101

2YH(ST)C11Y 4X2X0.6/1.05-100 LI GN

2000 m (6562 ft) on non-returnable reel

Product has not been tested and classified according to the CPR (EU/305/2011).

The product shall not be permanently installed in buildings in the EU.